

January 15, 2003

Mr. Fred Bright
Building Materials Manufacturing Corporation
901 Givens Road
Mount Vernon, IN 47620

Re: 129-16891
First Administrative Amendment to
FESOP 129-14097-00011

Dear Mr. Bright:

Building Materials Manufacturing Corporation was issued a FESOP on April 25, 2002, for a stationary asphalt roofing manufacturing plant. A letter requesting an administrative amendment was received on December 13, 2002. The changes requested are related to the addition of a lamination section on the existing shingle production line for the production of laminated shingles. In addition, a new tank is to be installed for the storage of laminating adhesive. The production of laminated shingles involves increased sand usage with the potential to emit of PM emissions increasing by 3.78 tons per year. Emissions from the laminator and laminating adhesive storage and application are negligible. The PM potential to emit of the modification is less than the threshold for Minor Permit Revision as stated in 326 IAC 2-8-11.1(d)(4)(A). The potential to emit of VOC and PM-10 for laminated shingle production is less than that of the existing 3-tab shingle production, due to a lower processing rate. Pursuant to 326 IAC 2-8-10(a)(6), an administrative amendment can be used for a change that "revises descriptive information where the revision will not trigger a new applicable requirement or violate a permit term". Therefore, pursuant to the provisions of 326 IAC 2-8-10 the permit is hereby administratively amended as follows (~~strike-out~~ to show deletions and **bold** to show additions):

(1) Section A.2 is amended as follows:

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) shingles & rolls production line with a maximum production rate of 73 tons per hour, installed in 1972 and exhausting through stacks S5 and S6, **including the following: (1) shingle coater dip pan; (2) lamination section for production of laminated shingles;**

(2) Section A.3 is amended as follows:

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) One (1) No. 2 fuel oil fired combustion unit, identified as mill oil heater # 1, with a maximum heat input capacity of 1.5 MMBtu/hr, and exhausting through stack S31.
- (b) One (1) propane fired combustion unit, identified as mat heater, with a rated capacity of 1.0

MMBtu/hr.

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- (c) One (1) propane fired combustion unit, identified as flame bar, with a rated capacity fo 1.0 MMBtu/hr.
- (d) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 10,500 gallons.
- (e) **A day tank for the storage of laminating adhesive, with a storage capacity of 1200 gallons, with emissions below exemption levels in 326 IAC 2-1.1-3(d)(1).**

(3) The facility description in Section D.1 is amended as follows:

Facility Description [326 IAC 2-8-4(10)]

- (a) One (1) shingles & rolls production line with a maximum production rate of 73 tons per hour, installed in 1972 and exhausting through stacks S5 and S6, **including the following: (1) shingle coater dip pan; (2) lamination section for production of laminated shingles;**

(4) Condition D.1.4 is modified as follows:

Emission Unit	Limited PM-10 Emissions (lb/hr)	Limited PM-10 Emissions (ton/yr)
Asphalt Blowing Operation	1.51	6.61
Shingle (including laminated shingle) & roll production line	3.73	16.33
Sand handling	0.927	4.06

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact Madhurima Moulik, at (800) 451-6027, press 0 and ask for Madhurima Moulik or extension 3-0868, or dial (317) 233-0868.

Sincerely,
Original signed by Paul Dubenetzky

Paul Dubenetzky, Chief
Permits Branch
Office of Air Quality

Attachments

mm

cc: File - Posey County
U.S. EPA, Region V
Posey County Health Department
Southwest Regional Office

Air Compliance Section Inspector - Scott Anslinger
Compliance Data Section - Karen Nowak
Administrative and Development
Technical Support and Modeling - Michele Boner

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

**Building Materials Manufacturing Corporation
901 Givens Road
Mt. Vernon, Indiana 47620**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F129-14097-00011	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: April 25, 2002 Expiration Date: April 25, 2007

1 st Administrative Amendment No. 129-16891	Pages Modified: 5, 7, 26, 27
Issued by:Original signed by Paul Dubenetzky Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date:January 15, 2003

SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary asphalt roofing manufacturing plant.

Authorized Individual:	Mel Taylor
Source Address:	901 Givens Road, Mt. Vernon, IN 47620
Mailing Address:	901 Givens Raod, Mt. Vernon, IN 47620
SIC Code:	2952
Source Location Status:	Posey
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD Rules; Minor Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) shingles & rolls production line with a maximum production rate of 73 tons per hour, installed in 1972 and exhausting through stacks S5 and S6, including the following:
(1) shingle coater dip pan; (2) lamination section for production of laminated shingles.
- (b) One (1) modified bitumen production line with a maximum production rate of 12.9 tons per hour, installed in 1986 and exhausting through stack S3.
- (c) One (1) asphalt blowing operation with a maximum blowing rate of 40,000 pounds per hour with emissions controlled by afterburner (boiler nos. 1 and 2), installed in 1973 and exhausting though stack S32.
- (d) Storage and handling of bulk material consisting of the following:
 - (1) Shingle and modified bitumen granules handling with maximum throughput of 268,072 tons per year, and exhausting through stacks S13, S14, S27, S28, S29 and S30.
 - (2) Shingle and modified bitumen filler handling with maximum throughput of 280,404 tons per year, utilizing dust collectors for particulate matter control, and exhausting through stacks S9, S19, S20, S21, S22, S23 and S24.
 - (3) Talc handling with maximum throughput of 801 tons per year, utilizing dust collectors for particulate matter control, and exhausting through stacks S18 and S25.
 - (4) Single and modified bitumen sand handling with maximum throughput of 40,593

tons per year, and exhausting through stacks S15, S17 and S26.

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Amended By: Madhurima D. Moulik OP. No. F 129-14097-00011

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) One (1) No. 2 fuel oil fired combustion unit, identified as mill oil heater # 1, with a maximum heat input capacity of 1.5 MMBtu/hr, and exhausting through stack S31.
- (b) One (1) propane fired combustion unit, identified as mat heater, with a rated capacity of 1.0 MMBtu/hr.
- (c) One (1) propane fired combustion unit, identified as flame bar, with a rated capacity fo 1.0 MMBtu/hr.
- (d) A petroleum fuel, other than gasoline, dispensing facility having a storage capacity less than or equal to 10,500 gallons, and dispensing less than or equal to 10,500 gallons.
- (e) A day tank for the storage of laminating adhesive, with a storage capacity of 1200 gallons, with emissions below exemption levels in 326 IAC 2-1.1-3(d)(1).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) to renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permit Conditions

- (a) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits.
- (b) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAQ, shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued.

A.6 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,
 - (2) revised, or
 - (3) deleted

by this permit.

- (b) All previous registrations and permits are superseded by this permit.

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SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]

- (a) One (1) shingles & rolls production line with a maximum production rate of 73 tons per hour, installed in 1972 and exhausting through stacks S5 and S6, including the following: (1) shingle coater dip pan; (2) lamination section for production of laminated shingles.
- (b) One (1) modified bitumen production line with a maximum production rate of 12.9 tons per hour, installed in 1986 and exhausting through stack S3.
- (c) One (1) asphalt blowing operation with a maximum blowing rate of 40,000 pounds per hour with emissions controlled by afterburner (boiler nos. 1 and 2), installed in 1973 and exhausting through stack S32.
- (d) Storage and handling of bulk material consisting of the following:
 - (1) Shingle and modified bitumen granules handling with maximum throughput of 268,072 tons per year, and exhausting through stacks S13, S14, S27, S28, S29 and S30.
 - (2) Shingle and modified bitumen filler handling with maximum throughput of 280,404 tons per year, utilizing dust collectors for particulate matter control, and exhausting through stacks S9, S19, S20, S21, S22, S23 and S24.
 - (3) Talc handling with maximum throughput of 801 tons per year, utilizing dust collectors for particulate matter control, and exhausting through stacks S18 and S25.
 - (4) Single and modified bitumen sand handling with maximum throughput of 40,593 tons per year, and exhausting through stacks S15, S17 and S26.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 General Provisions Relating to NSPS [326 IAC 12] [40 CFR 60, Subpart A]

The provisions of 40 CFR 60 Subpart A - General Provisions, which are incorporated as 326 IAC 12 apply to the facilities described in this section except when otherwise specified in 40 CFR 60 Subpart UU.

D.1.2 Particulate Matter (PM) [40 CFR Part 60.470, Subpart UU] [326 IAC 12]

Pursuant to New Source Performance Standard, 326 IAC 12, (40 CFR 60.470, Subpart UU:

- (a) The PM emissions from the modified bitumen production line shall not exceed 0.4 kilograms per megagram of asphalt shingle produced and the opacity shall not exceed twenty percent (20%).

D.1.3 Particulate Matter (PM) [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2 (Process Operations), particulate emissions from the following facilities shall be limited as follows:

Interpolation and extrapolation of the data for the process weight rate in excess of sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 55.0 P^{0.11} - 40$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

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Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Emission Unit	Process Weight Rate (ton/hr)	Allowable PM Emissions (326 IAC 6-3-2) (lb/hr)
Asphalt Blowing Operation	20	30.51
Shingle & roll production line	73	48.17
Modified bitumen production line	12.9	22.74
Granule handling	30.60	40.13
Filler handling	32.0	40.52
Talc handling	0.091	0.82
Sand handling	4.634	11.45

D.1.4 PM-10 Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4, PM-10 emissions shall not exceed the values stated in the following table. The combined PM-10 emissions from the listed facilities shall not exceed a total of 20.54 pound per hour, which is equivalent to 90.0 tons per year. Compliance with these PM-10 limits will satisfy 326 IAC 2-8-4. Therefore, the Part 70 rules (326 IAC 2-7) do not apply.

Emission Unit	Limited PM-10 Emissions (lb/hr)	Limited PM-10 Emissions (ton/yr)
Asphalt Blowing Operation	1.51	6.61
Shingle (including laminated shingle) & roll production line	3.73	16.33
Modified bitumen production line	0.55	2.41
Granule handling	6.12	26.80
Filler handling	0.064*	0.28*

Talc handling	1.82E-4*	7.97E-4*
Sand handling	0.927	4.06

* emissions controlled by dustcollectors.

D.1.5 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for these facilities and their control devices.

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 2-8-5(a)(1), (4)] [326 IAC 2-1.1-11]

During the period between 30 to 36 months after issuance of this permit, the Permittee shall perform the following to demonstrate compliance with Conditions D.1.2 , D.1.3 and D.1.4 for the asphalt blowing line, single & roll and modified bitumen production lines.